OIME
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TRANCOS PLANE

TCATCAAAGG AGTAGTTTCC SerSerLysAsp	ACCGTGACCG euAlaLeuAla CAGCTACATT	GTCGATGTAA 1SerTyrile AATCAGGATG	AsnGlnAspAla TGTCTGCGGT ACAGACGCCA	alSerAlaVal CACAGAGGTC GTGTCTCCAG eThrGluVal	GAGAAATGGG CTCTTTACCC GlulysTrpGly	GCCCCACCTT CGGGGTGGAA erProThrPhe	AGGCGCCGTT TCCGCGGCAA 9GlyAlaVal	GAGGTGATGC CTCCACTACG GluValMetLeu	
GAGAAAATTG CTCTTTTAAC 9ArgLysLeu	CCCCCCCCACG GlyAlaLeuL CCACCCTCGT	GGTGGGAGCA laThrLeuVa GGACAACCTC	uAspAsnLeu CCTGACCAGG GGACTGGTCC	ProAspGlnV TCTCCCGGTT AGAGGGCCAA heSerArgPh	GGATGTCCAA CCTACAGGTT uAspValGln	CTGTGGACAA GACACCTGTT LeuTrpThrS	TGCTGCTCCG ACGACGAGGC etLeuLeuAr	CTATCCAGTG GATAGGTCAC sTyrProval	
GCAGCAAAAG CGTCGTTTTC erSerLysAr	Tresaceac trysteuteu argreeaarg	TACAGGTTAC MetSerAsnA GGAAGCTGCT	lyLysteure CGTGTACAGG GCACATGTCC	evalTyrArg GTCAGGTTCT CAGTCCAAGA ValArgPheP	ACGTCTACCT TGCAGATGGA SPValTyrLe	ATCCATCCGC TAGGTAGGCG rSerIleArg	GTTGCAGGGA CAACGTCCCT ValalaGlyM	TCAGTGACCA AGTCACTGGT leSerAspHi	
		CCTCTGGTTC yGluThrLys ACTGCCGTGG	Thralavald GCTACCTGTT CGATGGACAA	rgTyrLeuPh GCCAGCCATT CGGTCGGTAA uProAlaIle	GCTCTCTATG CGAGAGATAC AlaLeuTyrA	CCCAGTGGTC GGGTCACCAG erGlnTrpSe	CAGGATCGTG GTCCTAGCAC PATGILEVAL	GCCCAAGCCA CGGGTTCGGT AlaGlnAlaI	
GACTACTTTT CTGATGAAAA *ThrThrPhe	Gradance Actococom Gradance Actococom Hislewargm etargolyme AGACATTGG GGAGACCAAG			TyrLysGlua TCAACCGAGA AGTTGGCTCT heAsnArgGl	CGAGATCGAC GCTCTAGCTG aGluileAsp	GTGAGACCCT CACTCTGGGA ValargProS	GTGCCTATGA CACGGATACT YSALATYTAS	TGACCAACTG ACTGGTTGAC TASPGInLeu	
TTTCTTCATA AAAGAAGTAT euSerSerAM		AAGTTGTAGG PheAsnIleG AGGTCAGAGA	TCCAGICICI IuvalArgAs ACGGAACAGC TGCCTTGICG	yArgAsnSer AACGACACCT TTGCTGTGGA AsnAspThrP	ACCGAGTAGC TGGCTCATCG SpArgValAl	CTGCAGCTAT GACGTCGATA YCYSSerTYT	CCCACGCACT GGGTGCGTGA ProThrHisC	ATGGCCTGAG TACCGGACTC YrGlyLeuSe	
TTCAGAGACC AAGTCTCTGG PheArgAspL	ATCICICAGE TAGAGACTCC isLeuOP*G1 GATCGCAGCC	CTAGCGTCGG SILEALAALA CTGGTCCAGG	GACCAGGICC LeuvalGlnG AGCCACTGGG TCGGTGACCC	luProLeuGl GCCCTGCGGG CGGGACGCCC uProCysGly	GCCCCGGGGG CGGGGCCCCC AlaProGlyA	TCAATGCGGG AGTTACGCCC heAsnAlaGl	CACAGCTACA GTGTCGATGT rThrAlaThr	CAGGCTGCCT GTCCGACGGA GlnAlaAlaT	GAACTGCAG CTTGACGTC P*ThrAla
GAAGTGCTTC CTTCACGAAG uLysCysPhe	CATTCICGIC GTAAGAGCAG HisSerArgH TGTCCTGAA	ACAGGGACTT alSerLeuLy TGACATCGCC	ACTGTAGCGG rASPIleAla GTGGTCAGTG	ValValSerG ATGGCTGCGA TACCGACGCT spGlyCysGl	CCTGCATGCG GGACGTACGC oLeuHisAla	ATGGGCGACT TACCCGCTGA MetGlyAspP	GCGCTGACAC CGCGACTGTG erAlaAspTh	CTTTAACTTC GAAATTGAAG oPheAsnPhe	CACACCAGTT GTGTGGTCAA HisThrSerO
GCAGTGCCTT CGTCACGGAA lySerAlaLe	TICITEACAG AAGAACIGIC pSerOP*Gln	GTCCCCGGC GlnGlyAlav TGAGCCGCTA	ACTCGGCGAT euSerArgTy CTATCACTAC GATAGTGATG	rtyrhistyr TACTACGATG ATGATGCTAC TyrtyrAspA	CCATTGTTCC GGTAACAAGG lailevalPr	CGTCATGTTG GCAGTACAAC pvalMetLeu	ATCCCCGACA TAGGGGCTGT IleProAspS	CGGCTCTTCC GCCGAGAAGG eralaleuPr	AGCCCCTCCC TCGGGGAGGG aAlaProPro
TCCTGCACAG AGGACGTGTC SerCysThrG	TATAAGGICT IleProAs	CCGGGATGAC AlaLeuLeu GTGCAGATCC	CACCAGACAC CACCAGACAC GTGGTCTGTG	ProAspTh GGACAGCTAC CCTGTCGATG AspSerTyr	AGGGAGTTTG TCCCTCAAAC ArgGluPheA	GCTTGGAGGA CGAACCTCCT LeuGluAs	CCAGTGGCTG GGTCACCGAC GlnTrpLeu	GTTCCCGACT CAAGGGCTGA ValProAspS	TGAAGTGAGC ACTTCACTCG LySOP*Al
H H 6	35	68 301	101	135 501 168	601	701	801	301	335

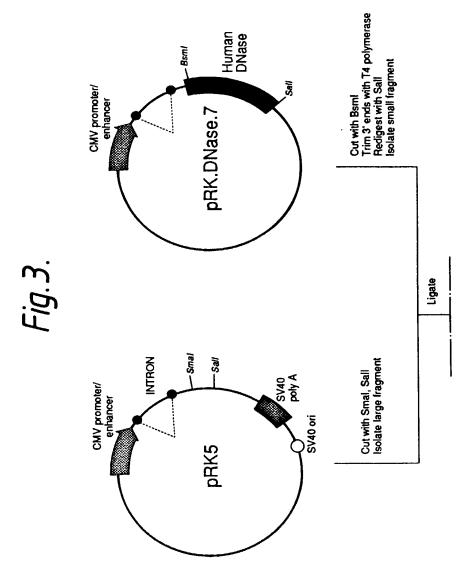
Fig.2.

	10	20	30	40	50
hDNase	LKIAAFNIQTFGE	TKMSNATLVSY	IVQILSRYDI	ALVQEVRDSH	ILTAVGK
	*****	*****	****	* * * * * * *	* ***
bDNase	LKIAAFNIRTFGE	TKMSNATLASY	IVRIVRRYD1	VLIEOVRDSH	ILVAVGK
DDNasc	10	20	30	40	50
	10	20	30	• •	
	60	70	80	90	100
1-DW	LLDNLNQDAPDTY				
hDNase	*** *** * ***	11 4 4 2 E P L G K I	121VEV1DE A 1	TEDQVSAVE	,111000
_					
bDNase	LLDYLNQDDPNTY				POGINI
	60	70	80	90	100
				_	
	110	120			150
hDNase	CEPCGNDTFNREP	AIVRFFSRFT	EVREFAIVPLE	!AAPGDRVAE]	[DALYDV
	** *** * * *	*.*.* *. *	*.****	· * * * * * * * * * * * * * * * * * * *	****
bDNase	CESCGNDSFSREP	AVVKFSSHST	(VKEFA IVALI	(SAPSDAVAE)	INSLYDV
~~	110	120	130	140	150
	160	170	180	190	200
hDNase	YLDVQEKWGLEDV				
IDNase	***** * * * *	THE SUPPLIES OF THE SECTION OF THE S	2 1 4 KE 2 Q N 2 2 .		******
1	********				AT TODGA
bDNase	YLDVQQKWHLNDV				200
	160	170	180	190	200
	210	220			250
hDNase	DTTATPTHCAYDR	IVVAGMLLRG	AVVPDSALPFI	NFQAAYGLSD(QLAQAIS
	*****	****	** ** **	.******	* ***
bDNase	DTTATSTNCAYDR	IVVAGSLLOSS	SVVGPSAAPFI	DFQAAYGLSNI	EMALAIS
	210	220		240	250
	260				
hDNase	DHYPVEVMLK				
IDHase	******				
bDMago	DHYPVEVTLT				
bDNase	DHIPVEVILI				

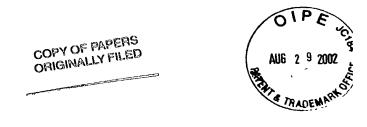












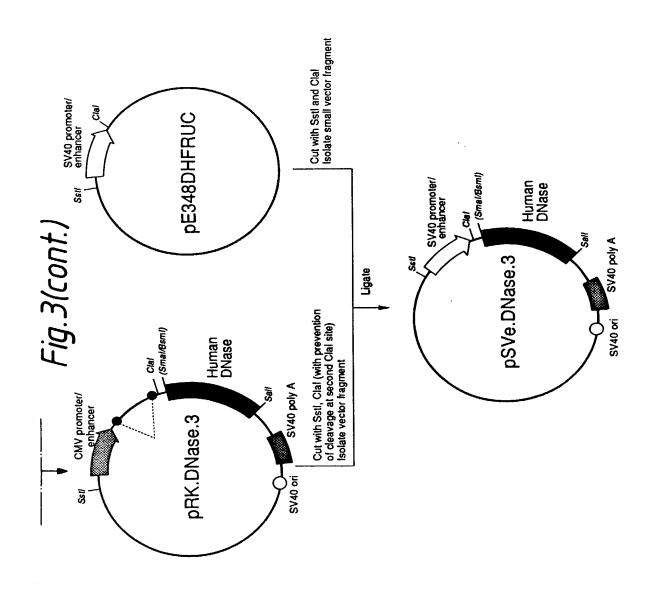
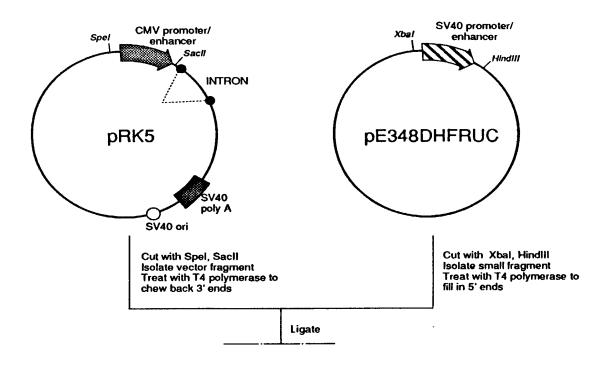
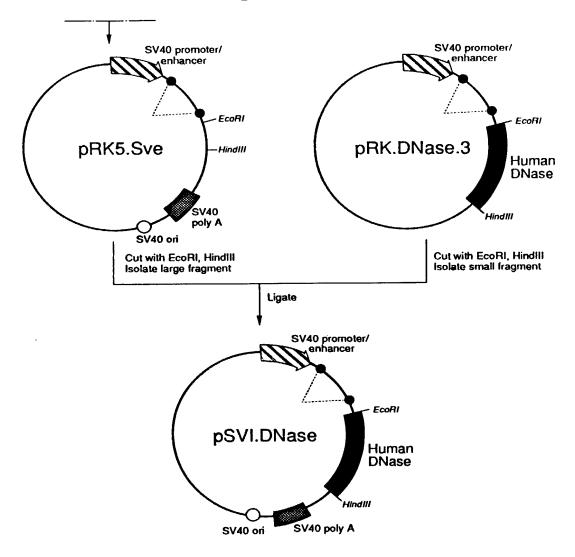


Fig.4.



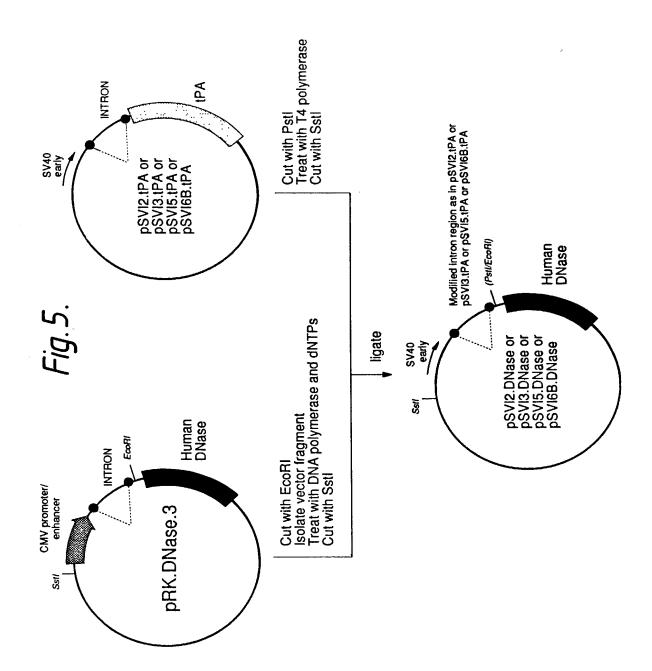
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Fig.4(cont.)









tagI salI hindII hindII hincII accI pleI aluI binfI pvuII ATTATTGACT AGACTCCCCA GCCTCCCCAG CAGGCAGAAG TAATAACTGA TCTCACACTTA CACACAGTCA ATCCCACAC TTTCAGGGGT CCGAGGGGTCTTC	scrFI scrFI ecoRII ecoRII strII scrFI ecoRII strII trIII strII trIII strIII strIII strIII trIII strIII trIIII strIII trIIII strIIII strIIII strIIII strIIII strIIIII strIIIII strIIIII strIIIII strIIIII strIIII strIIIII strIIIII strIIIII strIIIII strIIIII strIIIII strIIIII strIIIII strIIII strIIIII strIIIII strIIII strIIIII strIIIII strIIII strIIIII strIIII strIIIII strIIII strIIII strIIII strIIII strIIII strIII strIIII strIII strII strIII strIII strIII strIII strIII strIII strIII strIII strIII strII strII strII s
tagi sali hindii hincii acci plei alui hinfi pvuii AGAGTCGACA GCTGTGGAAT GTGTGTCAGT TAG	nlaIV scrFI ecoRII bstNI AACCAGGTGT GGAAAGTCCC CAGGCTCCCC AGC
alul sstl sati sajil bgili bsp1286 banil taqi 1 TTCGAGCTCG CCCGACATTG ATTATTGACT AAGCTCGAGC GGGCTGTAAC TAATAACTGA	nsil avalII nlaIII sphI sfaNI nspCIX 101 TATGCAAAGC ATGCATCTCA ATACGTTTCG TACGTAGGTCG

ACTAATTTT TTTATTTATG TGATTAAAAA AAATAAATAC	scrFI ncil mspi hpall caull haelli alul sau961 hindll asul
nlaIII styI ncol TTCTCCGC CCCATGGCTG	styl avril haeili stul haei mnli
bsrI ACTCCGCC CAGTTCCGCC CA TGAGGCGG GTCAAGGCGG GT	s hnli mnlimm
styl ncol coaccatag Tecegeceer Aacteegeege Tagegeege GTEAAGGEGE GTAAGGEGE GEGTACEGE TEATTATT TTATTATE cottegrate Aggeegega ttgaggege Tagegegege ATTGAGGEGE GTEAAGGEGE GTAAGGEGE GEGTACEGAE TGATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	scrFI ncil ncil avrII bgli ddel haeIII haeIII haeIII mnll mnll alul mnll alul mnll alul cancentary
201 GCAACCA! CGTTGGT&	hae. mnl1

AC	ase
alui sau961 hindiii asui AAGCTTATCG GGCCGGGA TTCGAATAGC CCGGCCCT	fnu4HI thaI fnuDII bstUI
haei mnli GAGGCCTAGG CTTTTGCAAA A CTCCGGATCC GAAAACGTTT I	bstXI sau96I haeIII asuI styI
I GGCTTTTTG CCGAAAAAAC	pleI hinfI
mnli mnli GTAGTGAGGA GO	rsaI
haelli haelli haelli sau961 mnli mnli mnli alui asu1 casasscca seccecetes cettetase tattecasaa stactese sectetature sassecetase cttttscaaa aasettates seccecetes	hinfI thaI fnuDII bstUI

SP6 Promoter GGTGCCATGCCA AGAGTGACGT AAGTACCGCC TATAGAGTCT ATAGGGCCCAC CCCCTTGGCT TCGTTAGAAC GCGGCTACAA CCACGTACAA CCACGTAGAA GGGGCACGGT TCTCACTGCA TTCATGGCGG ATATCTCAGA TATCCGGGTG GGGGAACCGA AGCAATCTTG CGCGATGTT 401

TA TRADEMARK

Fig.6(cont.)

Sau96I	avall	asuI	scrFI	ecoRII	bstNI		TCCCAGGTCC	AGGGTCCAGG
							AGGTGTCCAC	TCCACAGGTG
							TICICICAC	AAGAGAGGTG
						irt	CACTTTGCCT	GTGAAACGGA
					fokI	sp6 RNA start	TCATACACAT ACGATTTAGG TGACACTATA GAATAACATC CACTTTGCCT TTCTCTCCAC AGGTGTCCAC TCCCAGGTCC	AGTATOTOTA TOCTAAATOO ACTGTGATAT CTTATTGTAG GTGAAACGGA AAGAGAGGTG TOCACAGGTG AGGGTOCAGG
					H		TGACACTATA	ACTGTGATAT
					Iddd		ACGATTTAGG	TOTABABLO
						T.G	TCATACACAT	AGTATATATA
						note ATG		
					mseI		501 TTAATACATA ACCTTATGTA	Авттатстат тесавтасат
							501	

hgaI mseI aluI hındIII ddeI

cloning linker
601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCGCCGT GAATTTAAGG GACGCTGTGA AGCA
TTGACGTGGA GCCAAGATTC GAACCCGACG TCCAGGGGGA CTTAAATTCC CTGCGACACT TCGT



S CAGGCAGAAG GTCCGTCTTC	r CTTAATCAGT	r titatitatg A aaataaatac	scrFI ncil mspI hpalI xmalII eagl eagl cfrI mspI caulI hpalI CC GGCCGGGAAC	fnu4HI thai fnuDII bstUI octer C GGGGCTACAA
nlaIV FI KII VI GGCTCCCAG	sfaNI nsiI avaIII nlaIII sphI nspCIX GCATGCATCT	АСТААТТТТ ТGATTAAAA	sc ms hap hael xmalli eagl eagl eagl eagl eagl eagl eagl Aagl hindll hpall AAGCTTATCC GGCC	sp6 prom TCGTTAGAA AGCAATCTT
nl scrfi ecoRII bstNI AAAGTCCCCA GG	AGTATGCAAA TCATACGTTT	nlaIII styI ncoI CCCATGGCTG	CTTTGCAAA	styI CCCCTTGGCT GGGGAACCGA
TAGGGTĞTGG ATCCCACACC	AGCAGGCAGA TCGTCCGTCT	CATTCTCCGC GTAAGAGGCG	styl avril haeIII stul haeI mnli GAGGCTAGG	bstXI sau96I haeIII asuI ATAGGCCCAC
GTGTGTCAGT CACACAGTCA	nlaiv scrFI ecoRII bstNI GGAAAGTCC CAGGCTCCCC	bsrI TAACTCCGCC CAGTTCCGCC ATTGAGGCGG GTCAAGGCGG	.i gctttttg ccgaaaaac	pleI hinfI e donar TATAGAGTCT
aluI vuII A GCTGTGGAAT	sc ec bs GGAAAGTCCC CCTTTCAGGG		mnli mnli GTAGTGAGGA GC	pleI hinfI Ul matched splice AGAGTCAGGT AAGTACGGCC T
taqI sali hindII hincII accI pleI aluI hinfI pvuII AGAGTCGACA GCTGTGGAAT	scrFI ecoRII bstNI AACCAGGTGT TTGGTCCACA	fokI AACTCCGCCC ATCCCGCCCC TTGAGGCGGG TAGGGCGGGG	ddel elii mnli alui GCCTCTGAGC TATTCCAGAA	
ATTATTGACT TAATAACTGA	ATTAGTCAGC TAATCAGTCG	fo AACTCCGCCC TTGAGGCGGG	ddel haeIII aluI G GCCTCTGAGC	CCCCGTGCCA
CCCGACATTG	nsii avalii nlalii sphi sfaNi nspClx GC ATGCATCTCA	TCCCGCCCCT AGGGCGGGGA	fnu4HI bglI sfiI haeIII GGCCGCTC CCGGCGAG	hinfi thal fnuDii bstUI AACGCGATT (
alul sstl sacI bgiJII hgiAII bspl286 banII taqI TTCGAGCTCG	nl sph nsp TATGCAAAGC ATACGTTTGG	GCAACCATAG CGTTGGTATC	haeIII h.mnli mnli cagaggccga g	GGTGCATTGG
rel	101	201	301	401



Fig. 7 (cont.)

sau96I avail asui scrfi ecoRII bstNI sp6 RNA start
note ATG
501 THAATACATA ACCITATGTA TCATACACA AGGITTAGG TGACACTATA GAATAACATC CACITITGCCT TTCTCTCCAC AGGIGTCCACGTCCAGGTCC
AATTATGTAT TGGAATACAT AGTATGTA TGCTAAATCC ACTGTGATAT CITATTGTAG GTGAAACGGA AAGAGAGGTG TCCACAGGTG AGGGTCCAGG fokI hphI

bspMI alui pstI hindIII fnu4HI ddeI bbvI

hgaI

cloning linker 601 AACTGCACCT CGGTTCTAAG CTTGGGCTGC AGGTCGCCGT GAATTTAAGG GACGCTGTGA AGCA TTGACGTGGA GCCAAGATTC GAACCCGACG TCCAGGGGCA CTTAAATTCC CTGCGACACT TCGT

aseI



nlaIV II I GGCTCCCCAG CAGGCAGAAG	sfaNI nsii avalii nlaili sphi nspClx GCATGCATCT CAATTAGTCA	ACTAATTTT TTTATTATG TGATTAAAAA AAATAAATAC	scrFI ncii mspi hpali haelli xmalli eagi eagi eali cfri alul mspi cauli hindili hpali TCGAGTATCC GGCCCCTG	fnu4HI thaI fnuDII ase bstUI ase rCGTTAGAAC GCGCCTACAA AGCAATCTTG CGCCGATGTT
nl scrfi ecoRII bstNI AAAGTCCCCA GG	AGTATGCAAA TCATACGTTT	nlaIII styI ncol cccATGGCTG GGGTACCGAC	CTTTGCAAA	styI ccccrrggcr ggggaAccga
TAGGGTGTGG ATCCCACACC	AGCAGGCAGA TCGTCCGTCT	CATTCTCCGC GTAAGAGGCG	styI avrII haeIII stuI haeI mnlI GAGGCCTAGG	bstXI sau96I haeIII asuI ATAGGCCCAC
GIGIGICAGI	nlaIV scrFI ecoRII bstNI C CAGGCTCCCC G GTCCGAGGGG	bsrI TAACTCCGCC CAGITCCGCC ATTGAGGCGG GTCAAGGCGG	mnli .i .gA GCTTTTTG	pleI hinfI Ul matched splice donar AGAGTCAGGT AAGTACCGCC TATAGAGTCT TCTCAGTCCA TTCATGGCGG ATATCTCAGA
I alui pvuli ca GCTGTGGAAT	GGAAAGTCC		mnl GTAGTGAC	rsal matched splice GGT AAGTACCGCC 7
tagi sali hindi hinci plei pinfi AGAGTCGA	scrFI ecoRII bstNI AACCAGGTGT	fokI AACTCCGCCC ATCCCGCCC TTGAGGCGGG TAGGGCGGGG	I TATTCCAGAA ATAAGGTCTT	
ATTATTGACT TAATAACTGA	ATTAGTCAGC TAATCAGTCG		ddeI haeIII mnlI aluI G GCCTCTGAGC	I CCCCGTGCCA GGGGCACGGT
CCCGACATTG	nsil avalli nlalli sphi sfaNi nspClx GC ATGCATCTCA	TCCCGCCCCT AGGCGGGGA	fnu4HI bglI sfil haeIII I mnlI GGCCGCCTC	hinfI thaI fnuDII bstUI AACGCGATT O
aluI sstI sacI hqiJII hqiAI bspl286 banII taqI TTCGAGCTCG	n] spł nsf TATGCAAAGC ATACGTTTCG	GCAACCATAG	haeIII h mnll mnlI CAGAGGCCGA G	GGTGCATTGG CCACGTAACC
	101	201	301	401



Fig.8(cont.)

aug6I Vali Sul	Cloning linker concerns coloning linker	TCCTATAGAC TGACATCCAC TITGCCTITC TCTCCACAGO TGICCACICC CAGGICCAAC IGCACICGG IICGAAGCIT AGGATATCTG ACTGTAGGTG AAACGGAAAG AGAGGTGTCC ACAGGTGAGG GTCCAGGTTG ACGTGGAGGC AAGCTTCGAA		
sau3AI mboi dpni alwi xhoII nlaIV bstYI	alw] remove	ACCTTTTGGA TGGAAAACCT	bspMI pstI fnu4HI bbvI mseI hgaI	

GGGCTGCAGG TCGCCGTGAA TTTAAGGGAC GCTGTGAAGC A

Fig. 9.

```
aluT
           sstI
                                                                   taqI
           sacT
                                                                  salI
           hqiJII
                                                                  hindII
           hgiAI
                                                                  hincII
           bsp1286
                                                                 accI
                                                               pleI
           banII
                                                                           aluI
                                                              hinfl
        tagI
                                                                         pvuII
   1 TTCGAGCTCG CCCGACATTG ATTATTGACT AGAGTCGACA GCTGTGGAAT GTGTGTCAGT AAGCTCGAGC GGGCTGTAAC TAATAACTGA TCTCAGCTGT CGACACCTTA CACACAGTCA
                                          nlaIV
                                                                                                 avaIII
                                    scrFI
                                                                                              nlaIII
                                    ecoRTT
                                                                                            sphI sfaNI
                                                                                            nspCIx
                                    bstNI
 61 TAGGGTGTGG AAAGTCCCCA GGCTCCCCAG CAGGCAGAAG TATGCAAAGC ATGCATCTCA ATCCCACACC TTTCAGGGGT CCGAGGGGTC GTCCGTCTTC ATACGTTTCG TACGTAGAGT
                                                                nlaIV
                                                         scrFI
                            scrFI
                            ecoRII
                                                          ecoRII
                                                         bstNI
                            bstNI
121 ATTAGTCAGC AACCAGGTGT GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA AGTATGCAAA
TAATCAGTCG TTGGTCCACA CCTTTCAGGG GTCCGAGGGG TCGTCCGTCT TCATACGTTT
             sfaNI
          nsiI
          avaIII
        nlaIII
      sphI
      nspCIx
                                                                                              fokI
181 GCATGCATCT CAATTAGTCA GCAACCATAG TCCCGCCCCT AACTCCGCCCC ATCCCGCCCC CGTACGTAGA GTTAATCAGT CGTTGGTATC AGGGCGGGA TTGAGGCGGG TAGGGCGGGG
                                                                nlaIII
                                                              styI
                     bsrI
                                                              ncol
241 TAACTCCGCC CAGTTCCGCC CATTCTCCGC CCCATGGCTG ACTAATTTTT TTTATTTATG
ATTGAGGCGG GTCAAGGCGG GTAAGAGGCG GGGTACCGAC TGATTAAAAA AAATAAATAC
                          fnu4HI
                          bglI
                        sfiI
                                                 ddeI
                                      haeIII
            haeIII haeIII
                                                                                            mnlI
mnli mnli mnli mnli alui mnli
301 CAGAGGCCGA GGCCGCCTCG GCCTCTGAGC TATTCCAGAA GTAGTGAGGA GGCTTTTTTG
GTCTCCGGCT CCGGCGGAGC CGGAGACTCG ATAAGGTCTT CATCACTCCT CCGAAAAAAC
                                                                scrFI
                                                                ncil
                                                                mspI
                                                                hpaII
                                                             haelII
             styI
                                                         xmaIII
            avrII
                                                         eagI
         haeIII
                                                         eaeI
                                                                                                           hinfI
        stuI
                                                                                                     thaT
                                                         cfrI
        haeI
                                                       mspI cauII
                                            aluI
                                                                                                     fnuDII
mnli hindlii hpali bstul
361 GAGGCCTAGG CTTTTGCAAA AAGCTTATCC GGCCGGGAAC GGTGCATTGG AACGCGGATT
CTCCGGATCC GAAAACGTTT TTCGAATAGG CCGGCCCTTG CCACGTAACC TTGCGCCTAA
                                                                                         bstXI
                                                                                    sau96T
                          pleI
                                                                   pleI
                                                                                    haeIII
                          hinfI
                                             rsaĭ
                                                                   hinfI
                                                                                    asuI
                                                                                                     styI
Ul matched splice donar
421 CCCCGTGCCA AGAGTCAGGT AAGTACCGCC TATAGAGTCT ATAGGCCCAC CCCCTTGGCT
GGGGCACGGT TCTCAGTCCA TTCATGGCGG ATATCTCAGA TATCCGGGTG GGGAACCGA
```





Fig.9(cont.,

sau3AI mbol dpnI alwI xhoII nlaIV bstYI bamHI alwI fnu4HI tha! fnuDII bstUI sp6 promoter ~TTAGAA~

sp6 promoter
TCGTTAGAAC GCGGCTACAA TTAATACATA ACCTTTTGGA TCCTACTAAC TACTGACTTA
AGCAATCTTG CGCCGATGTT AATTATGTAT TGGAAAACCT AGGATGATTG ATGAATA

asul thai
scrFI fnuDII
ecoRII bstUI
bstUI mnlI nruI hindIII
541 TTCTTTTCTT TTCTCTCAC AGGTGTCCAC TCCCAGGTCC AACTGCACCT CGGTTGCAC
AAGAAAAGGA AAGAGAGGTG TCCCAGGTCCAGG TTGACGTGCA GCCAAGCGCA sau96I avaII asuI

bspMI pstI fnu4HI bbvI

hgaI mseI 109

AGCTTGGGCT GCAGGTCGCC GTGAATTTAA GGGACGCTGT GAAGCA TCGAACCCGA CGTCCAGCGG CACTTAAATT CCCTGCGACA CTTCGT



			ORIGINALLY FILED	
nlaIV scrFI ecoRII bstNI AAAGTCCCCA GGCTCCCCAG CAGGCAGAG	sfaNI nsiI avallI nlallI sphI nSpCIX GCATGCATCT CAATTAGTCA	ACTAATTTT TTTATTG TGATTAAAA AAATAATAC	scrFI ncil ncil mspi hpali haelli xmalil eagi eagi eati cfri alul mspi cauli hindlil hpali hrcGAATAGG CCGGCCCTTG	fnu4HI thal thal fnuDII bstUI sp6 promoter TCGTTAGAAC GCGCCTACAA
	AGTATGCAAA TCATACGTTT	nlaIII styI ncoI CCCATGGCTG	CTTTGCAAA GAAAACGTTT	styI CCCCTTGGCT GGGGAACCGA
TAGGGTGTGG ATCCCACACC	AGCAGGCAGA TCGTCCGTCT	CATTCTCCGC GTAAGAGGCG	styI avrII haeIII stuI haeI mnlI GAGGCCTAGG	bstXI sau96I haeIII asuI ATAGGCCCAC
GTGTGTCAGT CACACAGTCA	nlaIV scrFI ecoRII bstNI GGAAAGTCCC CAGGCTCCCC	bsrI TAACTCCGCC CAGTTCCGCC ATTGAGGCGG GTCAAGGCGG	.I GGCTTTTTG CCGAAAAAC	pleI hinfI Ul matched splice donar AGAGTCAGGT AAGTACGCG TATAGAGTCT TCTCAGTCCA TTCATGGGG ATATCTCAGA
hincil acci plei alui hinfi pvuli AGAGTCGACA GCTGTGGAAT	sc ec bs GGAAGTCCC CCTTTCAGGG	bs TAACTCCGCC ATTGAGGCGG	mnli mnli GTAGTGAGGA G	plursal hit matched splice donar SGT AAGTACCGCC TATAGA
hincil acci plei al hinfi pvu AGAGTCGACA	scrFI ecoRII bstNI AACCAGGTGT TTGGTCCACA	fokI cccccc ATCCCGCCC GCCGG TAGGCCGGGG	ddel I alul CTGAGC TATTCCAGAA GACTCG ATAAGGTCTT	pleI hinfI Ul mat AGAGTCAGGT TCTCAGTCCA
ATTATTGACT TAATAACTGA	ATTAGTCAGC TAATCAGTCG	fo AACTCCGCCC TTGAGGCGGG	ddeI haeIII mbli aluI cs GCCTCTGAGC	CCCCGTGCCA GGGGCACGGT
CCCGACATTG	nsil avalli nlalli sphl sfani nspCix GC ATGCATCTCA	TCCCGCCCCT AGGGCGGGA	fnu4HI bgli sfiI haeIII ha I mnlI GGCCGCCTCG	hinfi thal fnuDII bstUI AACGCGATT
ng1A1 bsp1286 banII taqI TTCGAGCTCG	nl sph TATGCAAAGC ATACGTTTCG	GCAACCATAG	fnu4H bgli sfil haeIII haeIII mnll mnll m cagaggccga ggccgc	GGTGCATTGG CCACGTAACC

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Fig. 10(cont.)

					thal aluI	fnuDII	bstUI	IIIputu Inau		,		ng linker	GGTTCGCGAA									-
								mnlI				cloni	ACTGCACCTC	בפשרפן פפשפ								
			sau96I	avall	asuI	SCLFI	ecoRII	bstNI					CCCAGGTCCA	1994771999				•		હેર	ž, ž	, f'
													GGTGTCCACT	49.T9947477								
												iat restored	TTTCTCCACA	AAAGAGGIGI	-			•			•	
								fokI			lariat consensus	IgG vH natural lari	501 TTAATACATA ACCTTTGGA TCCTACTGAC ACTGACATCC ACTTTTTCTT TTTCTCCACA GGTGTCCACT CCCAGGTCCA ACTGCACTC GGTTCGCGAA	TGACTGTAGG TGAAAAAGAA				mseI hqaI		GGACGCTGTG AAGCA	CGAACCCGAC GTCCAGCGGC ACTTAAATTC CCTGCGACAC TTCGT	
sau3AI	mbol	dpnI	[w]	xhoII	nlaIv	IX:	IHI	I,	red ATG	U2 match			A TCCTACTGAC	r AGGATGACTG				mseI		S TGAATTTAAG	S ACTTABATTC	
S	THE STATE OF THE S	ģ	ี่เช	xhc	nle	bst	DamHI	alv	removed				A ACCTTTTGG	T TGGAAAACC	bspMI	tI	4HI	H	ı	G CAGGTCGCC	C GTCCAGCGG	
								mseI					501 TTAATACAT	AATTATGTA		sd	fnu4HI	add	_	601 GCTTGGGCT	CGAACCCGA	



Fig. 11.

branchpoint?	splice acceptor	TGACGTAAGTAC <u>ATG</u> TATCATACACATACGATT <u>TAGGTGACA</u> CTATAGAATAACATCCACTTTGCCTTTCTCTCCACAGGT	tcassaraceatstatcatacacatacgatttagstsacactatagaaataacatttscctttscctttctccacags	CTATAGAÇIGACATCCACTTTGCCTTTCTCTCCACAGGT BPS IID	CTACTARCTACTION CTURITY TITIC CTTCTC CACAGGT BPS BPS	TRACTGACACCACTCTTTTCTTTTTCTCCACAGGT BPS IIB BPS IIA
						Carrie And
		ATGTA:	.ATGTA	Trager:	Trager:	Trong.
	splice donor	TGACGTAAGTAC		TGAGSTAAGTACTITGGATC	TGAGSTAAGTACTITGGATC	SVI6B тСадзтаастасПредатс
		SVI	SVIZ	SVI3	SVI5	SVI6B